

Installing SRM Link Modules in BN Platforms

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Meets requirements of:

FCC Part 15, Class A

EN 55 022 (CISPR 22:1985), Class A <and Class B>

VCCI Class 1 ITE

Canada Requirements Only

Canada CS-03 Rules and Regulations

Note: The Canadian Department of Communications label identifies certified equipment. The certification means that the equipment meets certain telecommunications network protective operations and safety requirements. The Department does not guarantee the equipment will operate to the user's satisfaction.

Before installing this equipment, users should ensure that it is permissible to be connected to the facilities of the local telecommunications company. The equipment must also be installed using an acceptable method of connection. In some cases, the company's inside wiring associated with a single line individual service may be extended by means of a certified connector assembly (telephone extension cord). The customer should be aware that compliance with the above conditions may not prevent the degradation of service in some situations.

Repairs to certified equipment should be made by an authorized Canadian maintenance facility designated by the supplier. Any repairs or alterations made by the user to this equipment or equipment malfunctions, may give the telecommunications company cause to request the user to disconnect the equipment.

Users should ensure for their own protection that the electrical ground connections of the power utility, telephone lines and internal metallic water pipe system, if present, are connected together. This precaution may be particularly important in rural areas.

Caution: Users should not attempt to make such connections themselves, but should contact the appropriate electric inspection authority, or electrician, as appropriate.

Canada CS-03 -- Règles et règlements

Note: L'étiquette du ministère des Communications du Canada indique que l'appareillage est certifié, c'est-à-dire qu'il respecte certaines exigences de sécurité et de fonctionnement visant les réseaux de télécommunications. Le ministère ne garantit pas que l'appareillage fonctionnera à la satisfaction de l'utilisateur.

Avant d'installer l'appareillage, s'assurer qu'il peut être branché aux installations du service de télécommunications local. L'appareillage doit aussi être raccordé selon des méthodes acceptées. Dans certains cas, le câblage interne du service de télécommunications utilisé pour une ligne individuelle peut être allongé au moyen d'un connecteur certifié (prolongateur téléphonique). Le client doit toutefois prendre note qu'une telle installation n'assure pas un service parfait en tout temps.

Les réparations de l'appareillage certifié devraient être confiées à un service d'entretien canadien désigné par le fournisseur. En cas de réparation ou de modification effectuées par l'utilisateur ou de mauvais fonctionnement de l'appareillage, le service de télécommunications peut demander le débranchement de l'appareillage.

Pour leur propre sécurité, les utilisateurs devraient s'assurer que les mises à la terre des lignes de distribution d'électricité, des lignes téléphoniques et de la tuyauterie métallique interne sont raccordées ensemble. Cette mesure de sécurité est particulièrement importante en milieu rural.

Attention: Les utilisateurs ne doivent pas procéder à ces raccordements eux-mêmes mais doivent plutôt faire appel aux pouvoirs de réglementation en cause ou à un électricien, selon le cas.

Canada Requirements Only *(continued)*

D. O. C. Explanatory Notes: Equipment Attachment Limitations

The Canadian Department of Communications label identifies certified equipment. This certification meets certain telecommunication network protective, operational and safety requirements. The department does not guarantee the equipment will operate to the users satisfaction.

Before installing the equipment, users should ensure that it is permissible to be connected to the facilities of the local telecommunications company. The equipment must also be installed using an acceptable method of connection. In some cases, the company's inside wiring associated with a single line individual service may be extended by means of a certified connector assembly (telephone extension cord). The customer should be aware that compliance with the above condition may not prevent degradation of service in some situations.

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Notes explicatives du ministère des Communications: limites visant les accessoires

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Canada Requirements Only *(continued)*

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This digital apparatus (Access Feeder Node, Access Link Node, Access Node, Access Stack Node, Backbone Concentrator Node, Backbone Concentrator Node Switch, Backbone Link Node, Backbone Link Node Switch, Concentrator Node, Feeder Node, Link Node) does not exceed the Class A limits for radio-noise emissions from digital apparatus as set out in the Radio Interference Regulations of the Canadian Department of Communications.

Règlement sur le brouillage radioélectrique du ministère des Communications

Cet appareil numérique (Access Feeder Node, Access Link Node, Access Node, Access Stack Node, Backbone Concentrator Node, Backbone Concentrator Node Switch, Backbone Link Node, Backbone Link Node Switch, Concentrator Node, Feeder Node, Link Node) respecte les limites de bruits radioélectriques visant les appareils numériques de classe A prescrites dans le Règlement sur le brouillage radioélectrique du ministère des Communications du Canada.

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About This Guide

Read this guide if you are responsible for installing a System Resource Module-Link (SRM-L) in one of these Backbone Node (BN[®]) platforms:

- Backbone Link Node (BLN[®])
- Backbone Link Node-2 (BLN-2)
- Backbone Concentrator Node (BCN[®])

This guide describes how to

- Prepare for installation
- Install the link module
- Interpret the LEDs on the link module



Note: Experienced network operators can safely perform the user-serviceable procedures described in this book; however, only authorized Bay Networks service technicians can perform other maintenance procedures, not described in this book.

Conventions

bold text	Indicates text that you need to enter and command names in text. Example: Use the dinfo command.
<i>italic text</i>	Indicates variable values in command syntax descriptions, new terms, file and directory names, and book titles.
quotation marks (“ ”)	Indicate the title of a chapter or section within a book.

Acronyms

ILI	Intelligent Link Interface
LED	light-emitting diode
SRM-L	System Resource Module-Link
SRM-F	System Resource Module-Front

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- Santa Clara, California
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- Valbonne, France

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To purchase any of the Bay Networks support programs, or if you have questions on program features, use the following numbers:

Region	Telephone Number	Fax Number
United States and Canada	1-800-2LANWAN; enter Express Routing Code (ERC) 290 when prompted (508) 436-8880 (direct)	(508) 670-8766
Europe	(33) 92-968-300	(33) 92-968-301
Asia/Pacific Region	(612) 9927-8800	(612) 9927-8811
Latin America	(407) 997-1713	(407) 997-1714

In addition, you can receive information on support programs from your local Bay Networks field sales office, or purchase Bay Networks support directly from your authorized partner.

Bay Networks Information Services

Bay Networks Information Services provide up-to-date support information as a first-line resource for network administration, expansion, and maintenance. This information is available from a variety of sources.

World Wide Web

The Bay Networks Customer Support Web Server offers a diverse library of technical documents, software agents, and other important technical information to Bay Networks customers and partners.

A special benefit for contracted customers and resellers is the ability to access the Web Server to perform Case Management. This feature enables your support staff to interact directly with the network experts in our worldwide Technical Response Centers. A registered contact with a valid Site ID can

- View a listing of support cases and determine the current status of any open case. Case history data includes severity designation, and telephone, e-mail, or other logs associated with the case.
- Customize the listing of cases according to a variety of criteria, including date, severity, status, and case ID.
- Log notes to existing open cases.
- Create new cases for rapid, efficient handling of noncritical network situations.
- Communicate directly via e-mail with the specific technical resources assigned to your case.

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This CD-ROM -- sent quarterly to all contracted customers -- is a complete Bay Networks Service troubleshooting knowledge database with an intelligent text search engine.

The Support Source CD contains extracts from our problem-tracking database; information from the Bay Networks Forum on CompuServe; comprehensive technical documentation, such as Customer Support Bulletins, Release Notes, software patches and fixes; and complete information on all Bay Networks Service programs.

You can run a single version on Macintosh Windows 3.1, Windows 95, Windows NT, DOS, or UNIX computing platforms. A Web links feature enables you to go directly from the CD to various Bay Networks Web pages.

CompuServe

For assistance with noncritical network support issues, Bay Networks Information Services maintain an active forum on CompuServe, a global bulletin-board system. This forum provides file services, technology conferences, and a message section to get assistance from other users.

The message section is monitored by Bay Networks engineers, who provide assistance wherever possible. Customers and resellers holding Bay Networks service contracts also have access to special libraries for advanced levels of support documentation and software. To take advantage of CompuServe's recently enhanced menu options, the Bay Networks Forum has been re-engineered to allow links to our Web sites and FTP sites.

We recommend the use of CompuServe Information Manager software to access these Bay Networks Information Services resources. To open an account and receive a local dial-up number in the United States, call CompuServe at 1-800-524-3388. Outside the United States, call 1-614-529-1349, or your nearest CompuServe office. Ask for Representative No. 591. When you are on line with your CompuServe account, you can reach us with the command **GO BAYNET**.

InfoFACTS

InfoFACTS is the Bay Networks free 24-hour fax-on-demand service. This automated system has libraries of technical and product documents designed to help you manage and troubleshoot your Bay Networks products. The system responds to a fax from the caller or to a third party within minutes of being accessed.

To use InfoFACTS in the United States or Canada, call toll-free 1-800-786-3228. Outside North America, toll calls can be made to 1-408-764-1002. In Europe, toll-free numbers are also available for contacting both InfoFACTS and CompuServe. Please check our Web page for the listing in your country.

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Sydney, Australia	(612) 9927-8800	(612) 9927-8811
Tokyo, Japan	(81) 3-5402-0180	(81) 3-5402-0173

Chapter 1

Preparing for Installation

Depending on your configuration, complete these preliminary tasks as needed to install the link module:

- Choose a slot
- Remove a link module

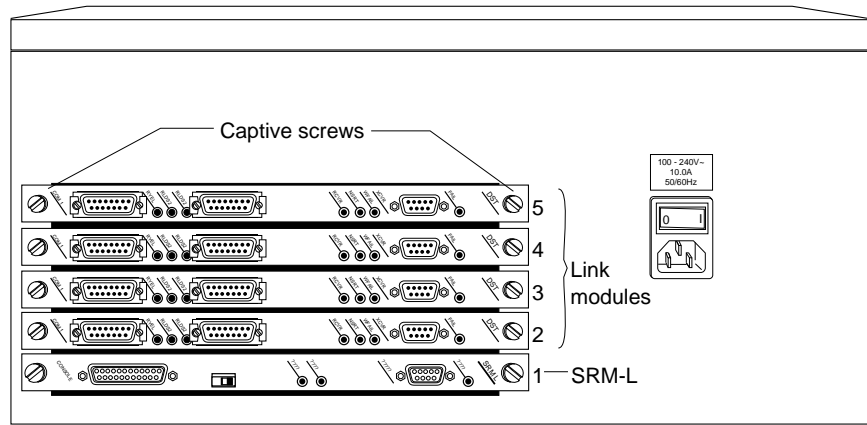


Note: There are no *user-configurable* jumpers on the SRM-L. Changing any jumper settings on this module can jeopardize module functioning.

Choosing a Slot

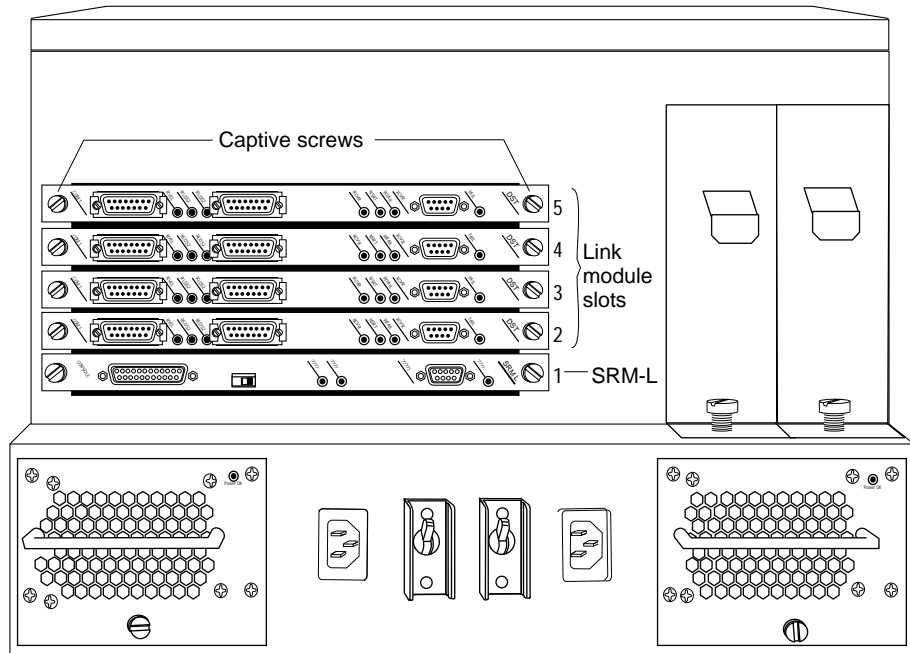
You can install the SRM-L in

- Slot 1 in the BLN platform ([Figure 1-1](#))
- Slot 1 in the BLN-2 platform ([Figure 1-2](#))
- Slot 7 in the BCN platform ([Figure 1-3](#))



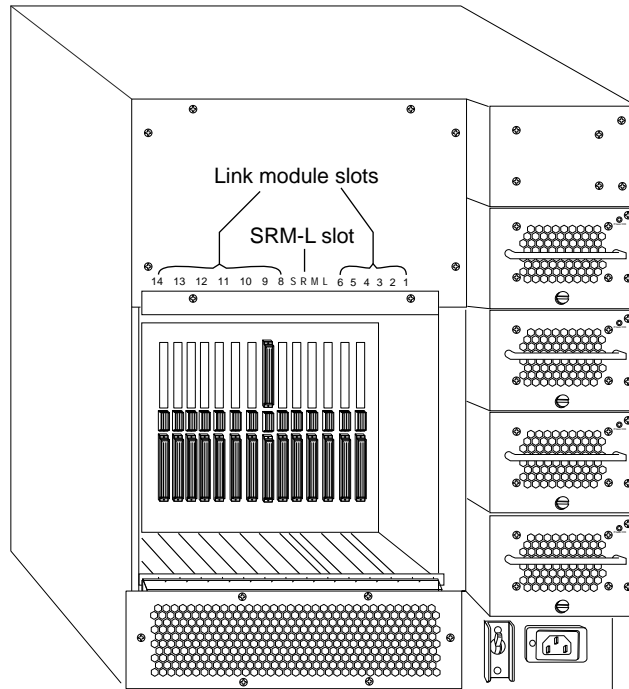
QMC0008A

Figure 1-1. SRM-L and Link Modules in a BLN Platform



QMC0009A

Figure 1-2. SRM-L and Link Modules in a BLN-2 Platform



QMC0012A

Figure 1-3. SRM-L and Link Modules in a BCN Platform

Removing an SRM-L

If the SRM-L slot in your BN platform already contains an SRM-L that you are replacing, you must remove the old module to install the new one.



Note: The SRM-L and System Resource Module-Front (SRM-F) each supply two backbones. This means that two backbones become inactive if you remove one of these modules, and four backbones become inactive if you remove both. When you insert a module, its associated backbones become active. Refer to *Installing and Maintaining BN Routers* for more information on the SRM-F.

The BN hot-swap feature allows you to remove or replace an SRM-L with the chassis power on or off.



Danger: A potential energy hazard exists during hot-swap service of link modules. Do *not* remove more than two adjacent modules without powering off the BN platform.

The procedure for removing an SRM-L is the same for the BLN, BLN-2, and BCN platforms:

1. **Disconnect any exterior cables from the link module.**
2. **Attach an antistatic wrist strap.**

BN platforms and link modules ship with an antistatic wrist strap. You must wear one of these straps when accessing components on BN platforms. The antistatic wrist strap directs the discharge of static electricity from your body to the chassis, thereby avoiding discharge and possible damage to sensitive electronic components.



Caution: Electrostatic discharge can damage hardware. Always use the antistatic wrist strap when handling any component on your BN platform.

3. **Loosen the captive screw on each end of the module.**
4. **Grasp the sides of the module and pull it out of the slot.**
5. **Place the module in an antistatic protective bag.**

Chapter 2

Installing the SRM-L

Complete the steps in this chapter to install the SRM-L in your BLN, BLN-2, or BCN platform.

Inserting the Module

Install the module in the BLN, BLN-2, or BCN platform as follows:

- 1. Attach an antistatic wrist strap.**

BN platforms and link modules ship with an antistatic wrist strap. You must wear one of these straps whenever you access components in a platform.

The antistatic wrist strap directs the discharge of static electricity from your body to the chassis, thereby avoiding discharge and possible damage to sensitive electronic components.

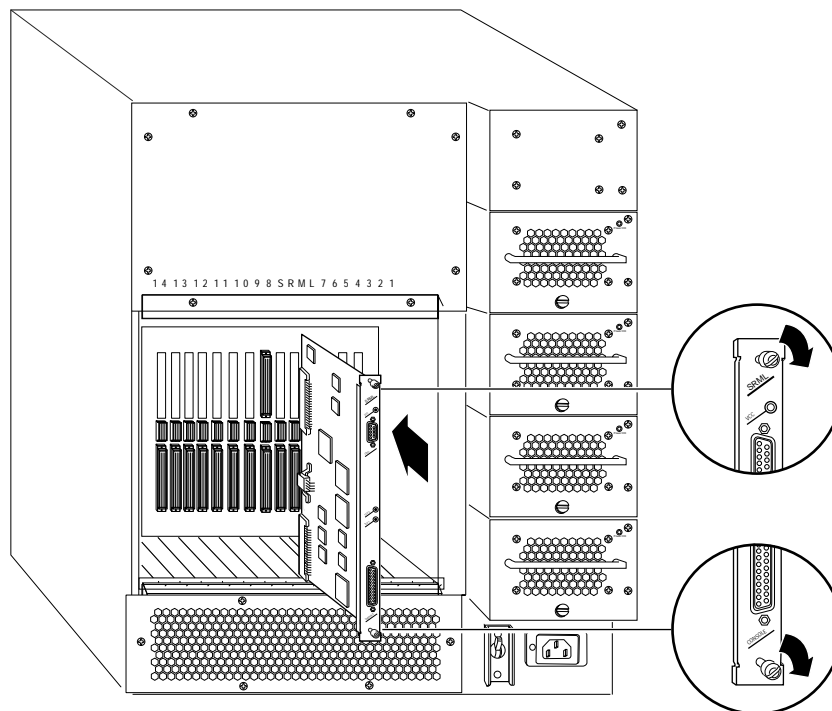


Caution: Electrostatic discharge can damage hardware. Always use the antistatic wrist strap when handling any component in your BN platform.

- 2. Using the slot card guides, slide the module into the appropriate slot until the module's connector panel touches the BN platform's back panel.**

Refer to Figure 1-1 (BLN), 1-2 (BLN-2), or 1-3 (BCN) for slot locations.

- 3. Secure the captive screw on each end of the module ([Figure 2-1](#)).**



SRM0002A

Figure 2-1. Link Module Captive Screws (BCN Example)

4. Once you are done accessing the interior of the chassis, remove the antistatic wrist strap.

Connecting Cables

Connect the necessary cables to the link module ports.

Refer to the cable guide for information about the cables Bay Networks supports for link modules.

Chapter 3

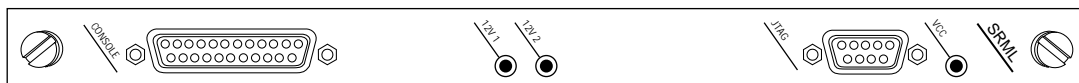
Checking Status Indicators

This chapter describes the status indicator lights (LEDs) on the SRM-L. Use the LEDs to verify that the link module is operating after installation.



Note: We recommend that you issue the **diags** command to the associated slot, using the Bay Networks Technician Interface, immediately after you insert a link module. (Refer to *Using Technician Interface Software*.) Otherwise, the link module FAIL LED will remain lit, indicating that diagnostics have not run on the Intelligent Link Interface (ILI). However, even if you do not issue the **diags** command, the link module initializes and becomes operational as long as the board functions properly and contains the correct interface configurations.

[Figure 3-1](#) shows the LEDs on the SRM-L.



SRM0001A

Figure 3-1. SRM-L LEDs

The LEDs on the SRM-L indicate the following:

- When the 12V 1 LED is *not* on:
 - The F7 fuse is blown in the BLN/BLN-2.
 - The F9 fuse is blown in the BCN.
- When the 12V 2 LED is *not* on:
 - The F6 fuse is blown in the BLN/BLN-2.
 - The F12 fuse is blown in the BCN.
- When lit, the VCC LED indicates that the power supply voltages are within normal limits.